

FIG. 1 prior art

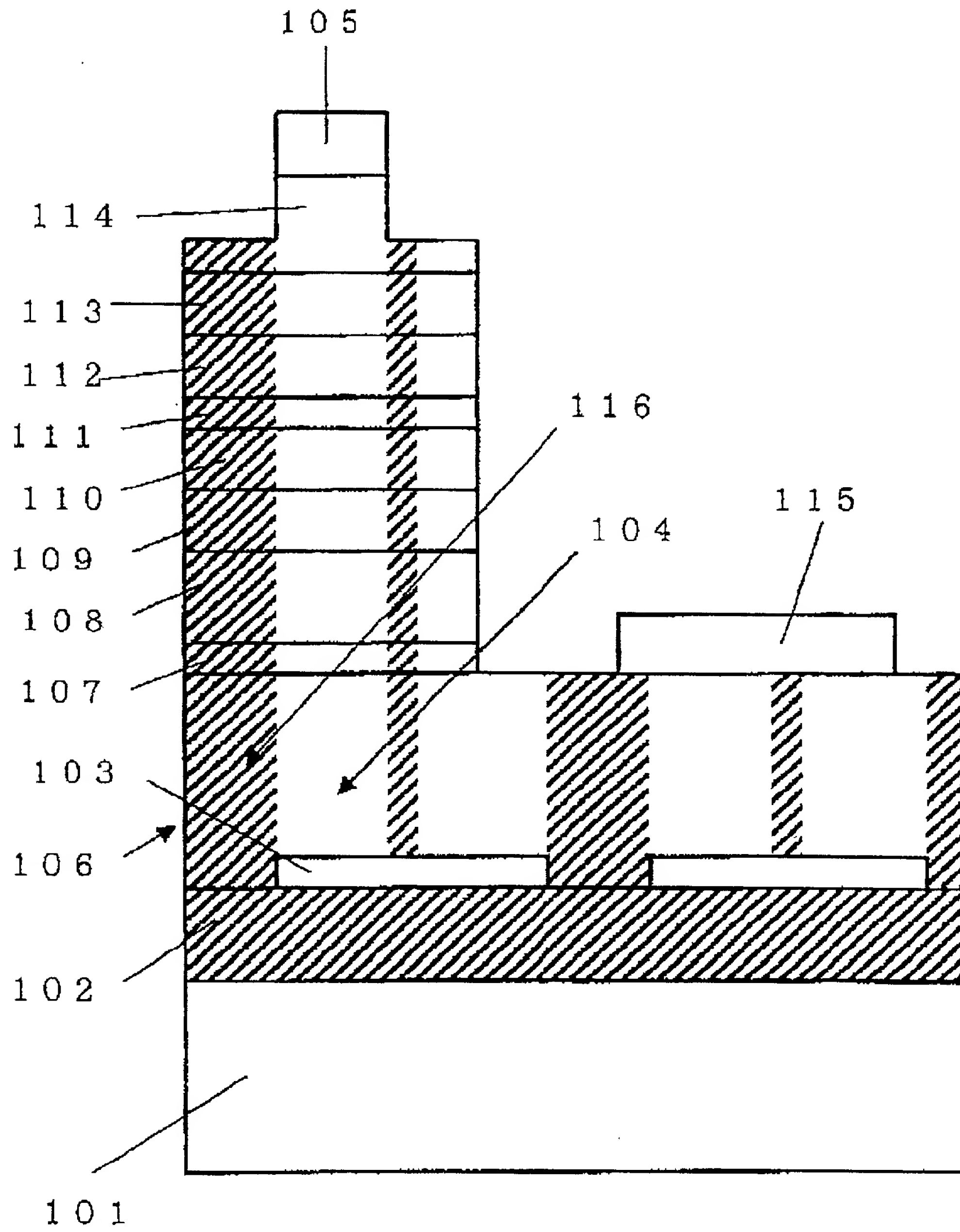


FIG. 2 prior art

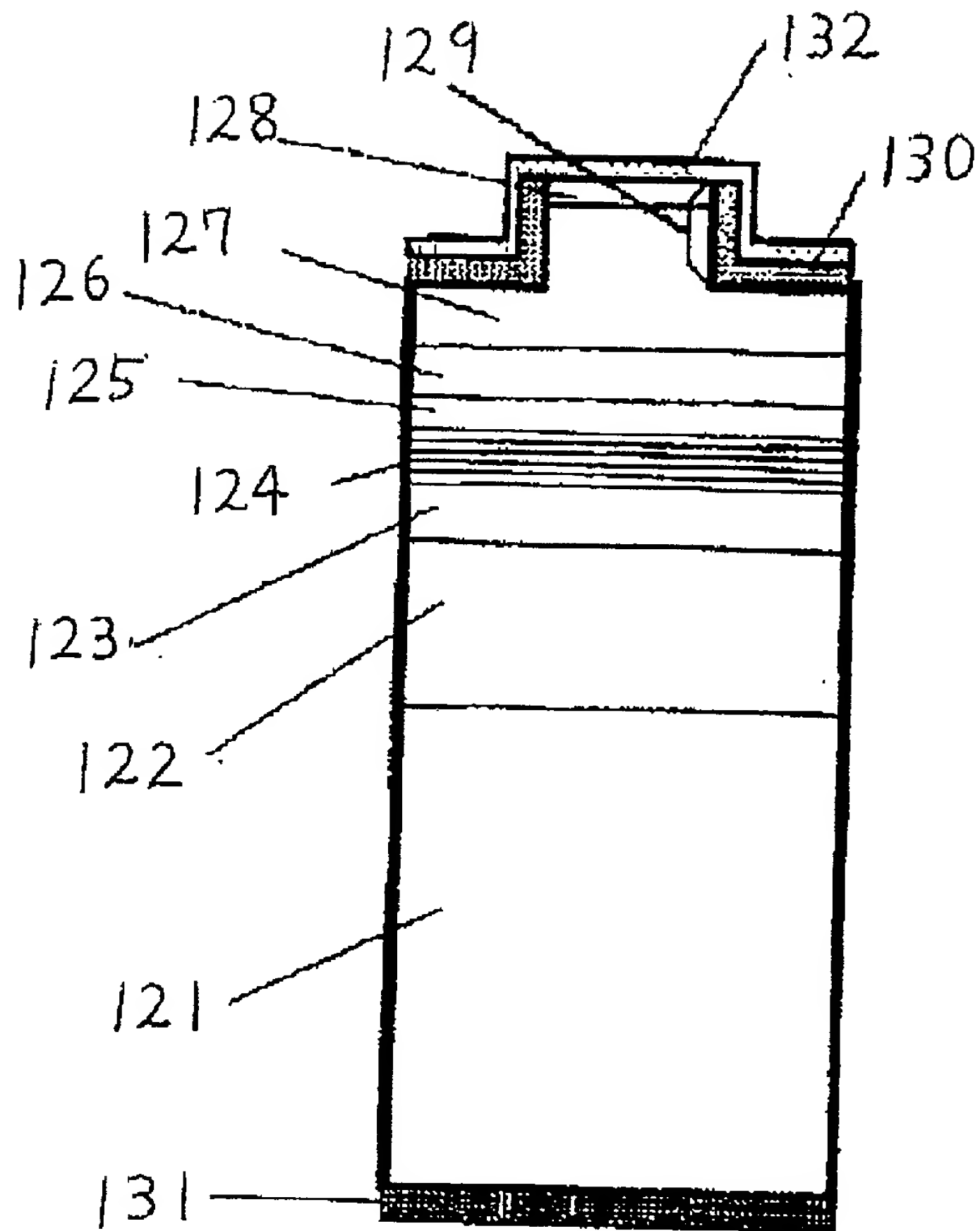


FIG. 3 prior art

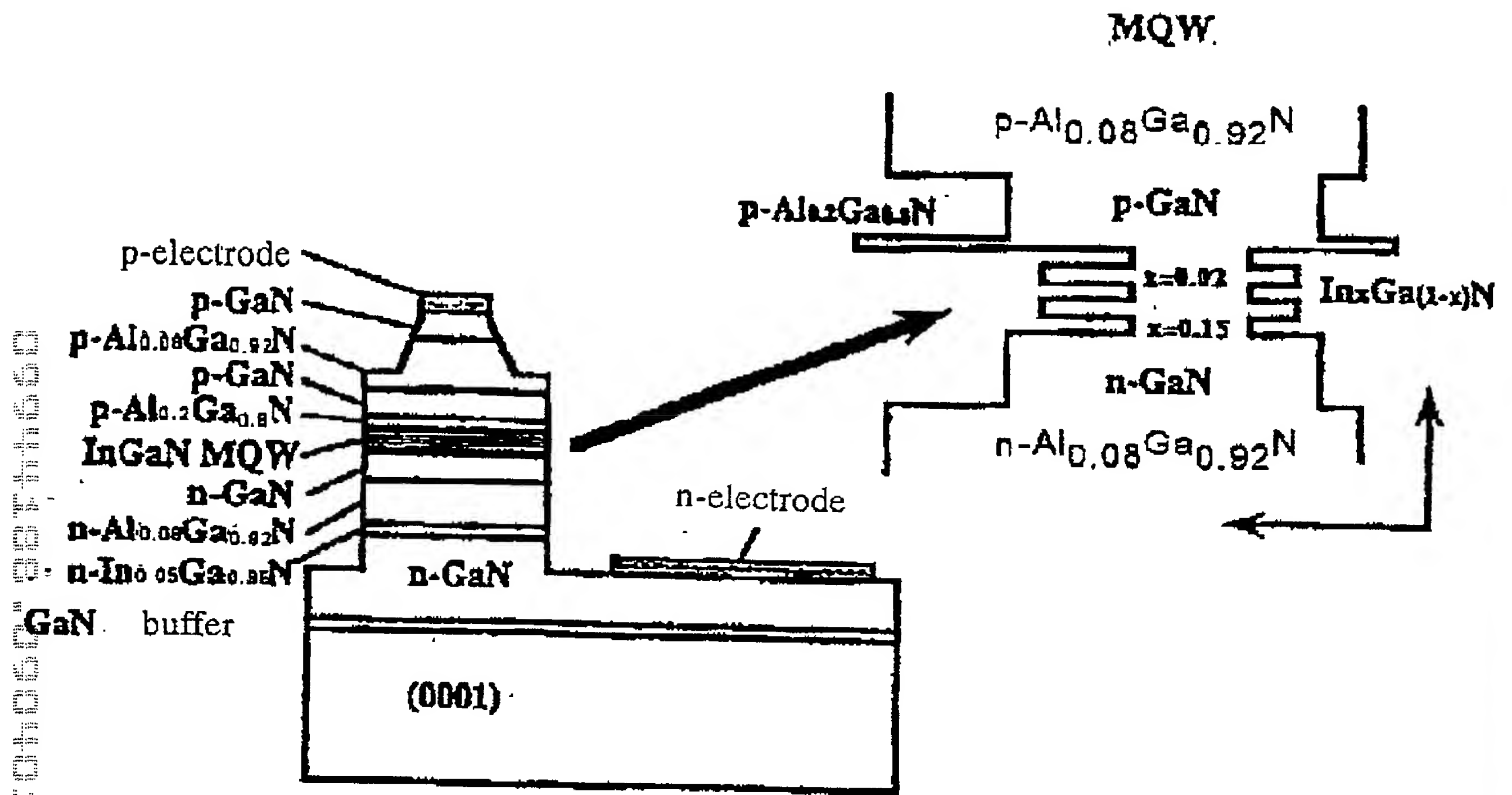


FIG. 4

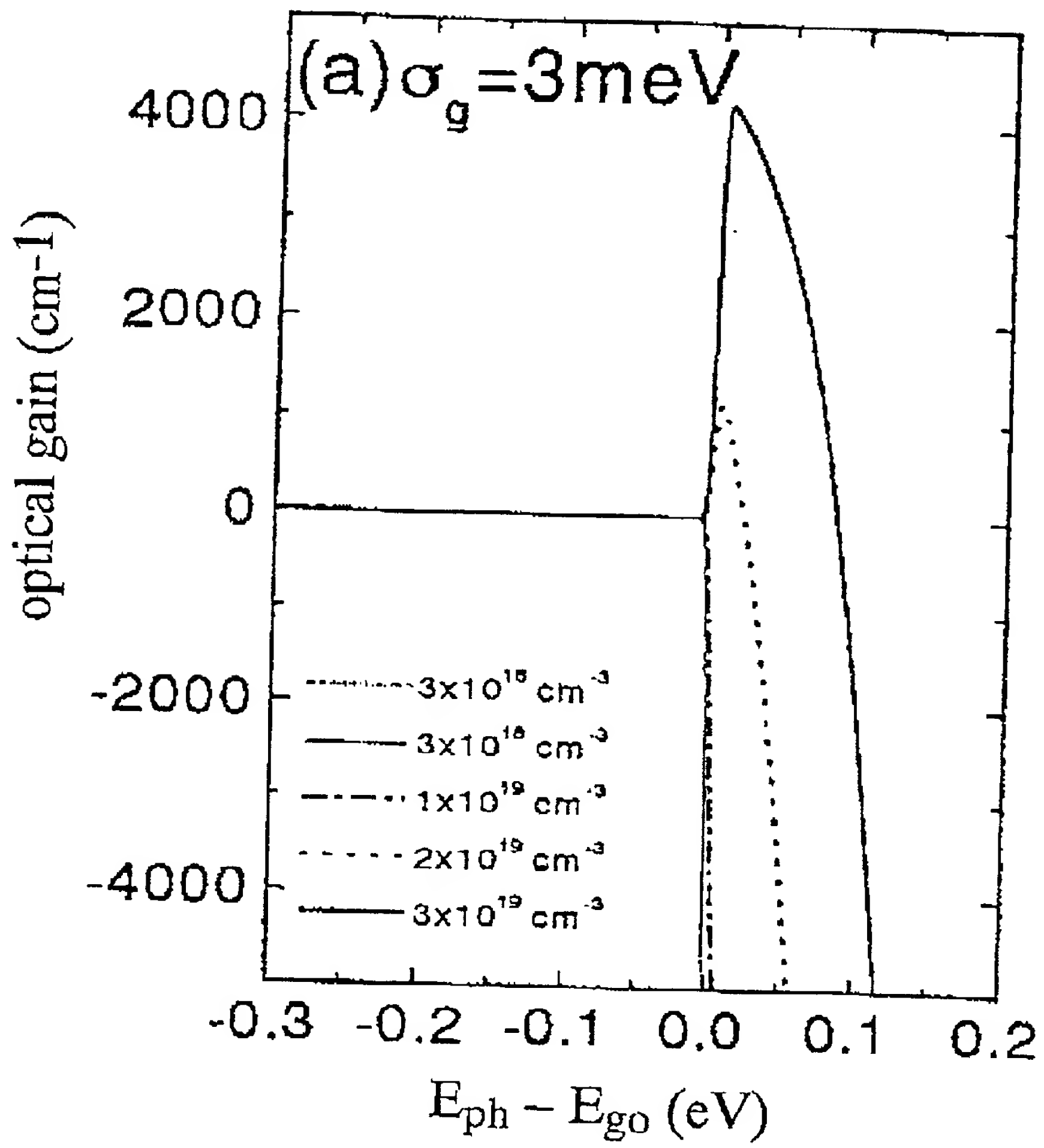


FIG. 5

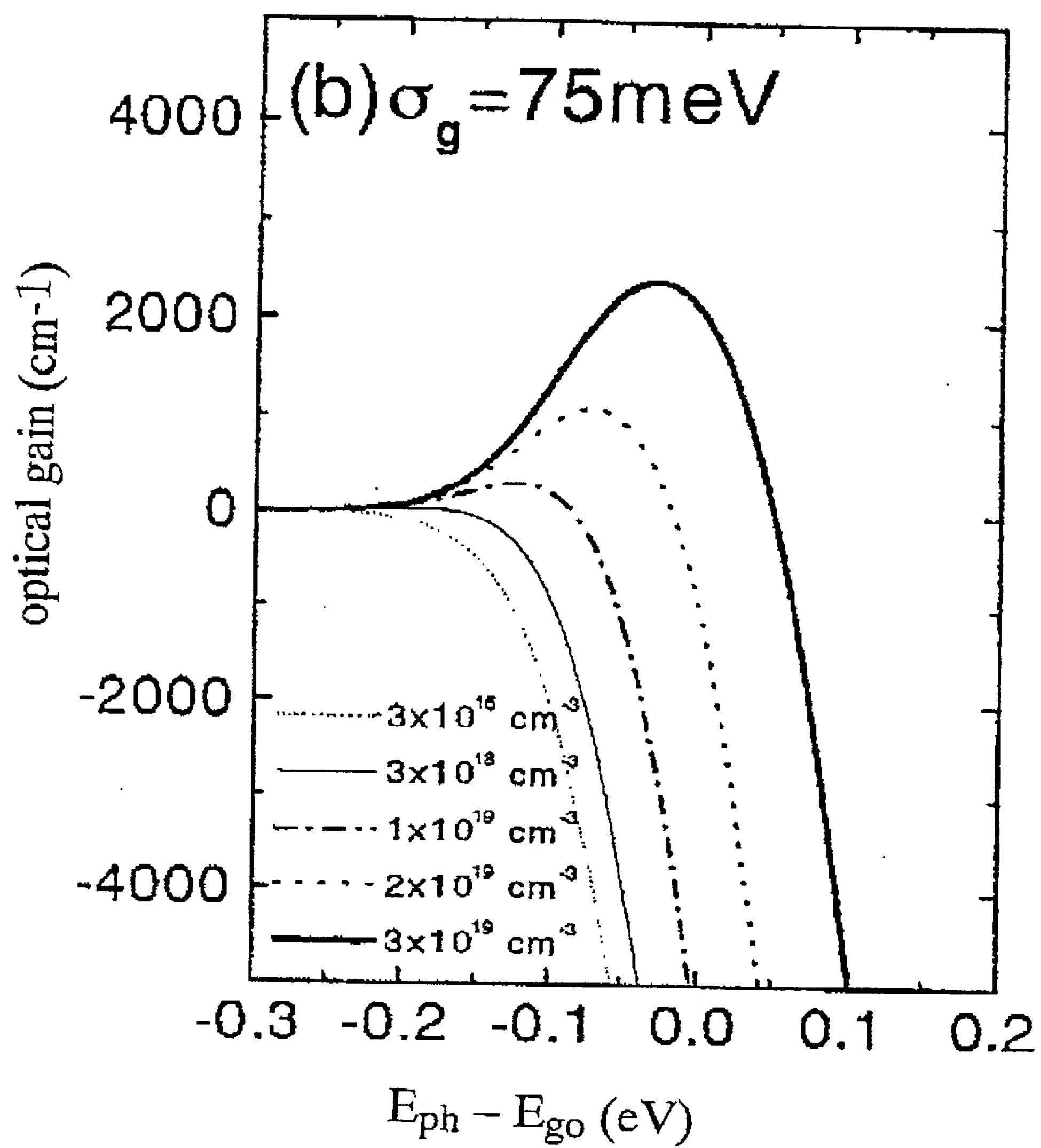


FIG. 6

threshold
threshold mode gain (cm^{-1})
for single quantum well

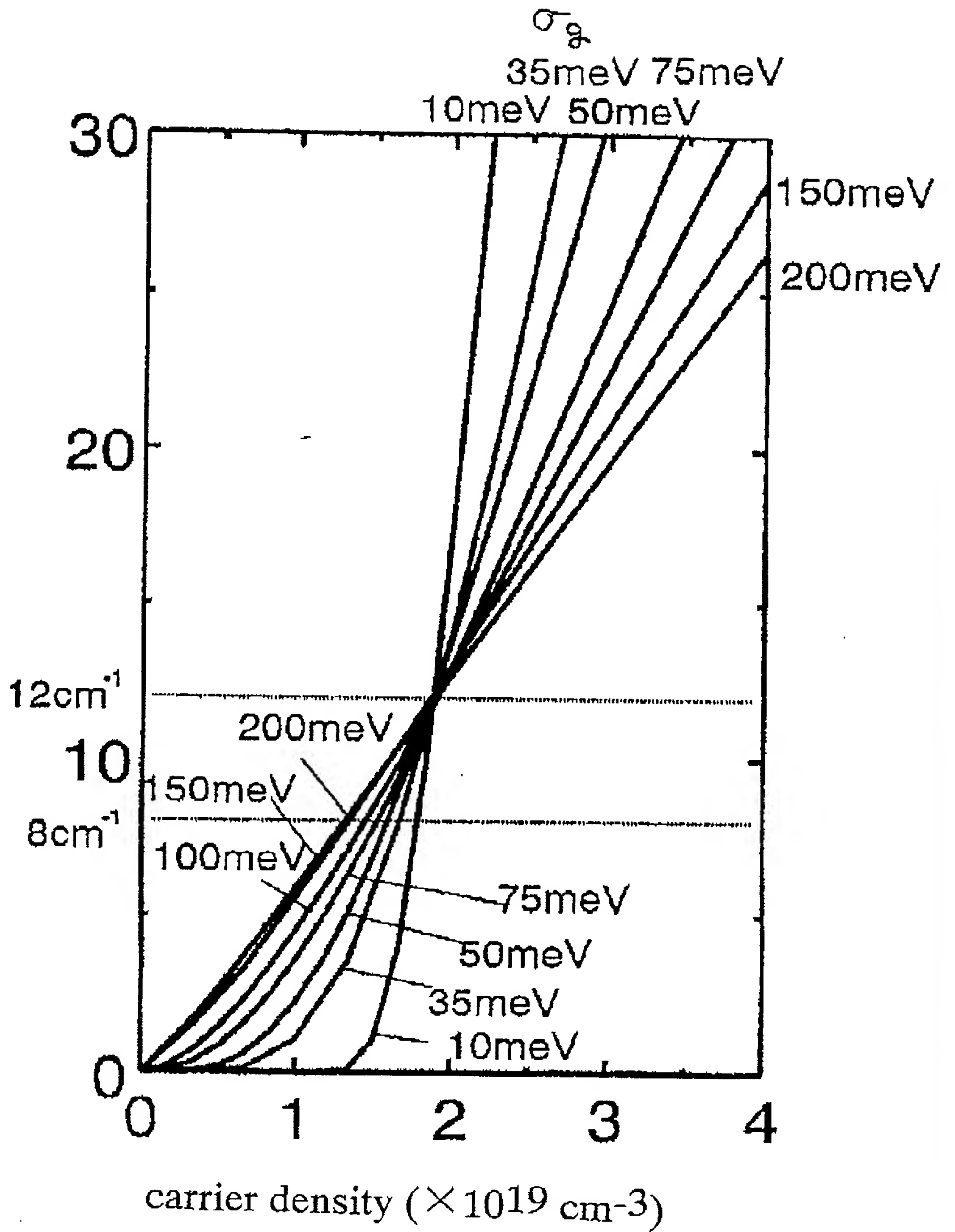


FIG. 7

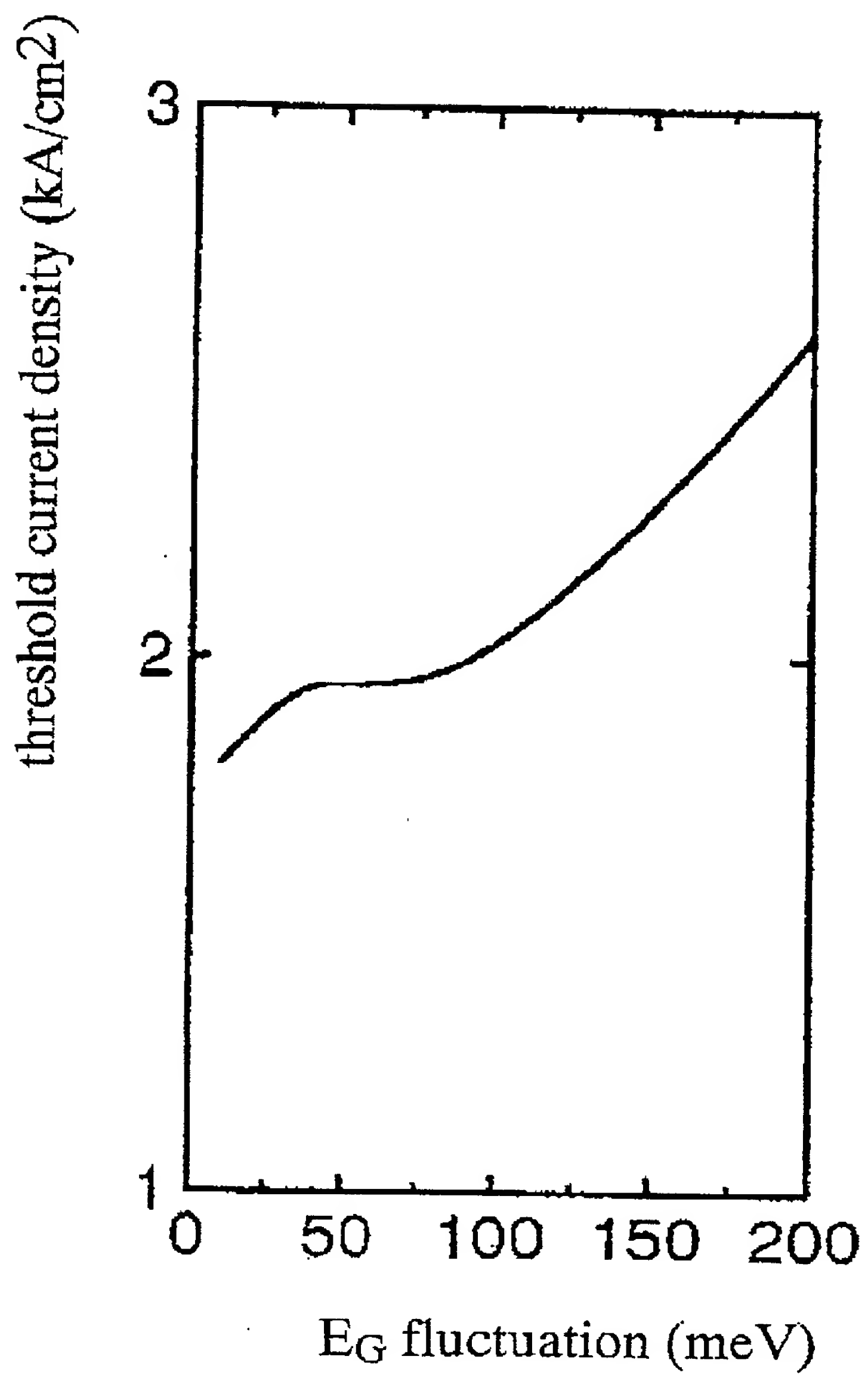


FIG. 8

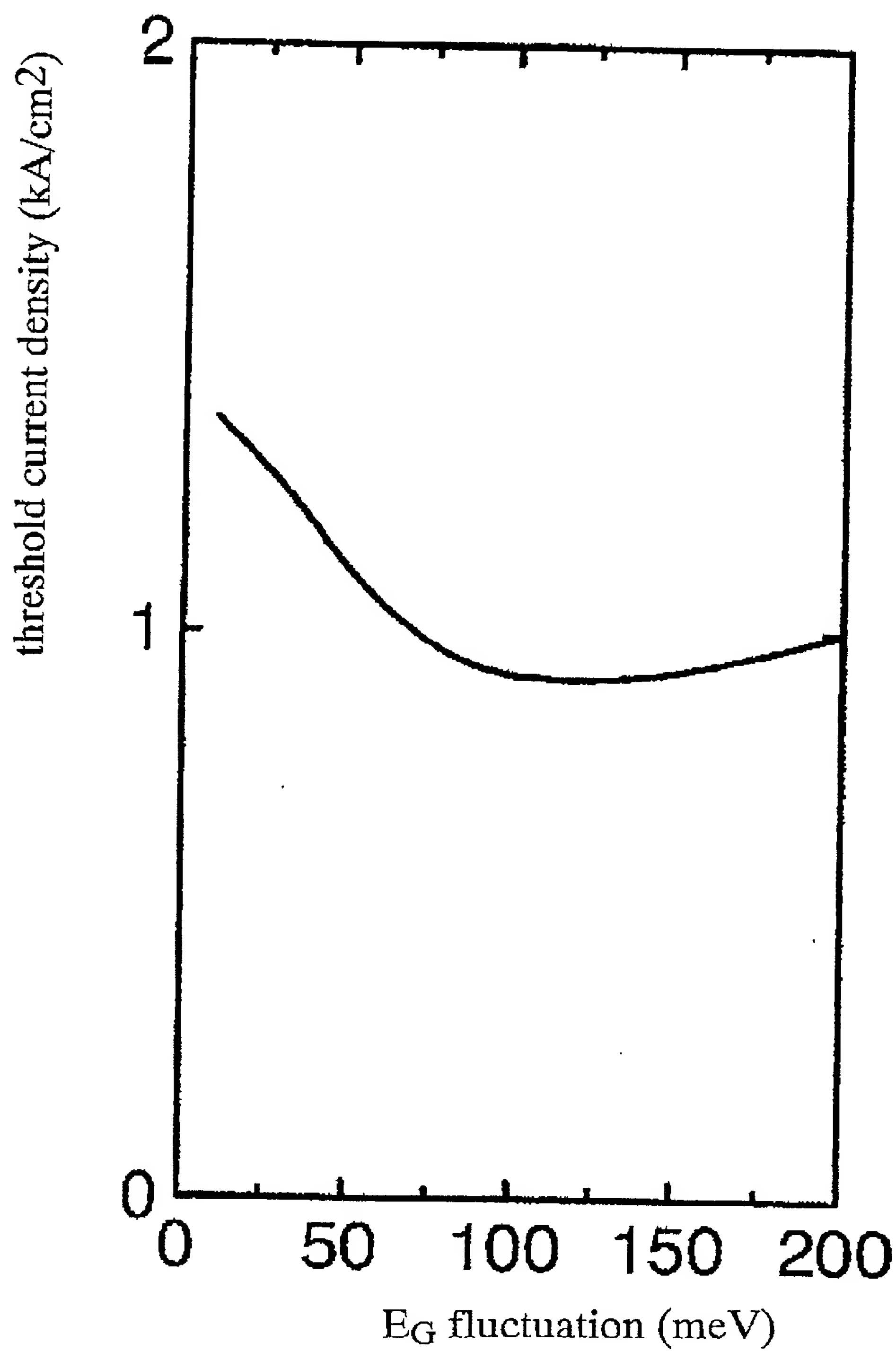


FIG. 9

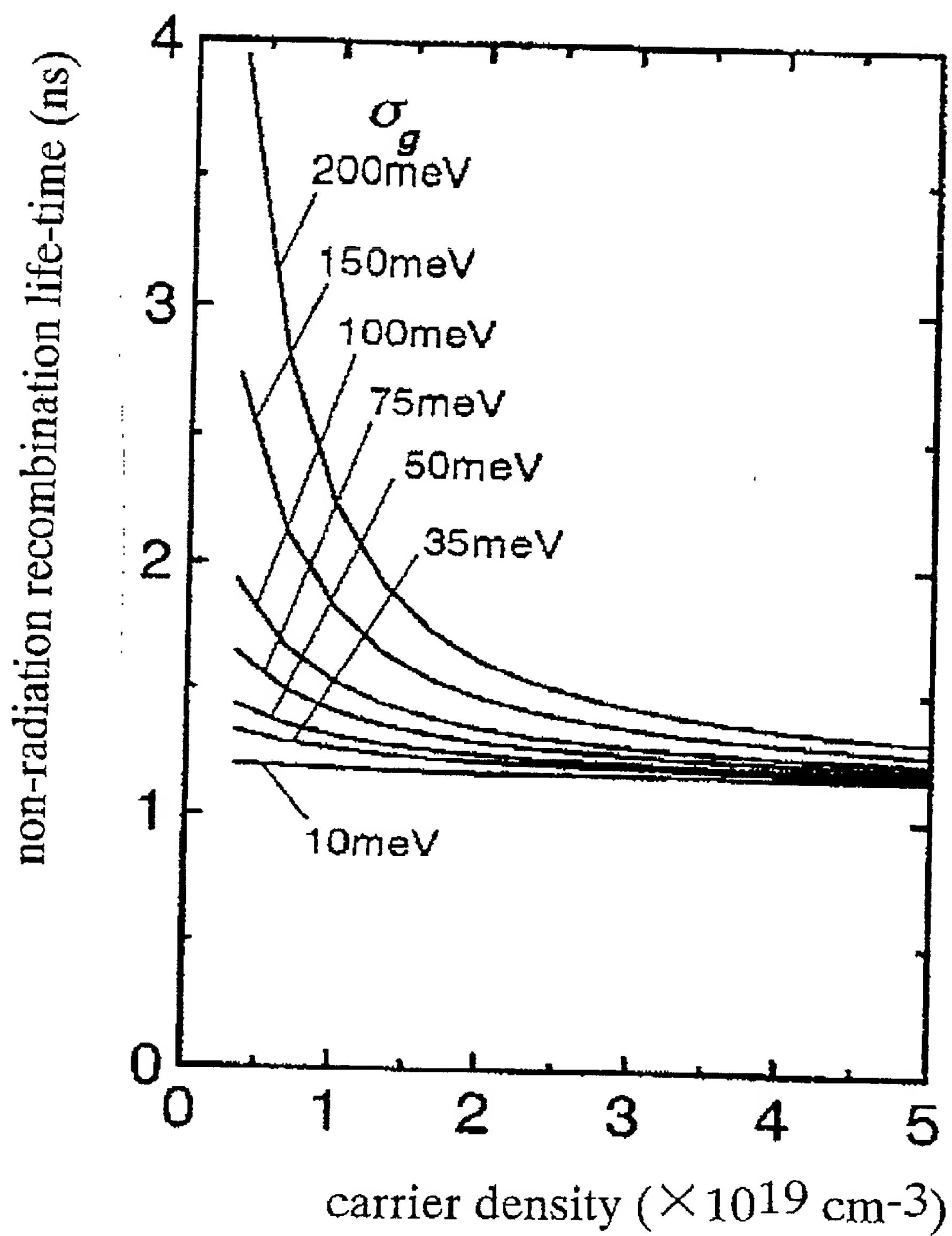


FIG. 10

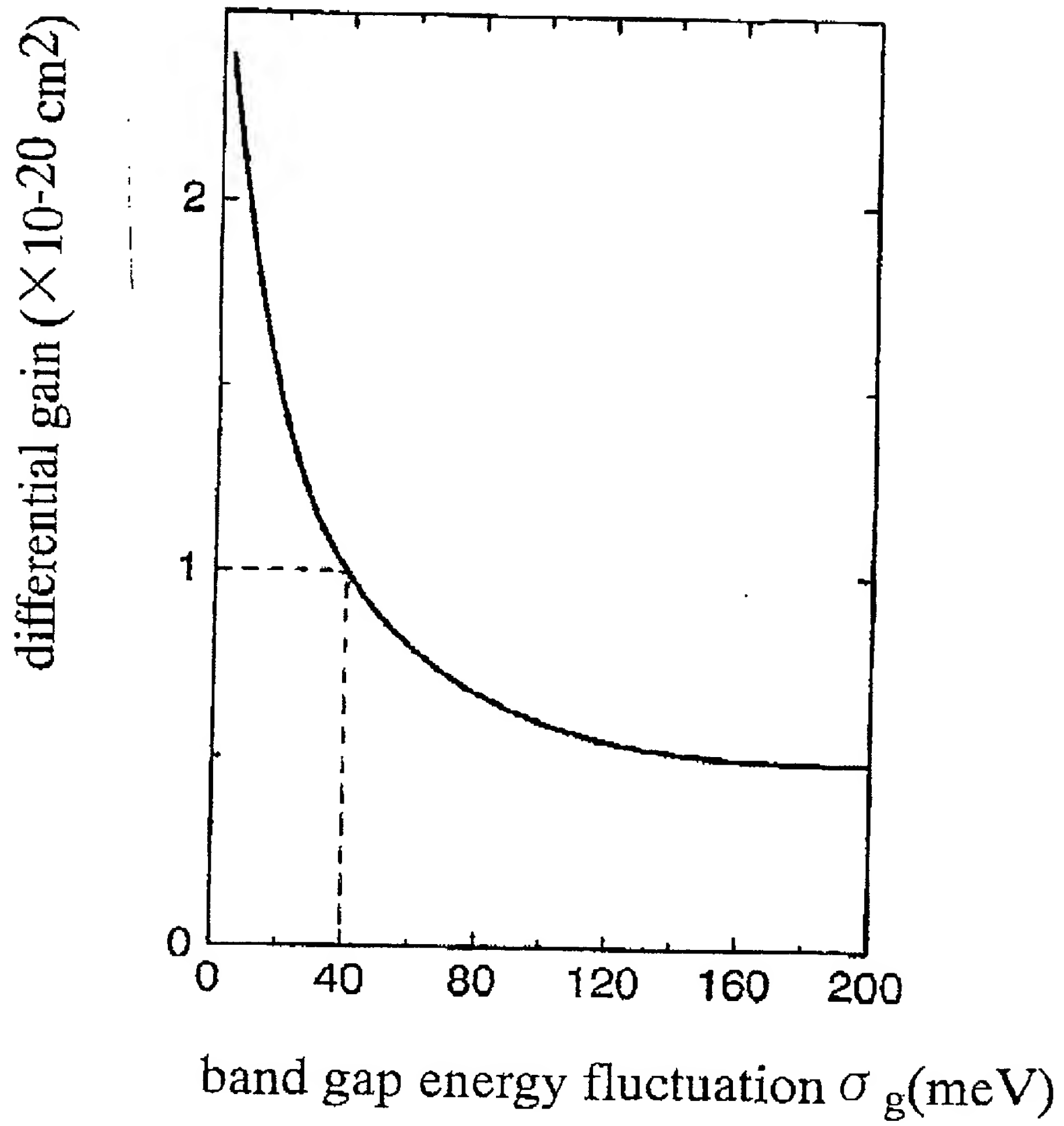


FIG. 11

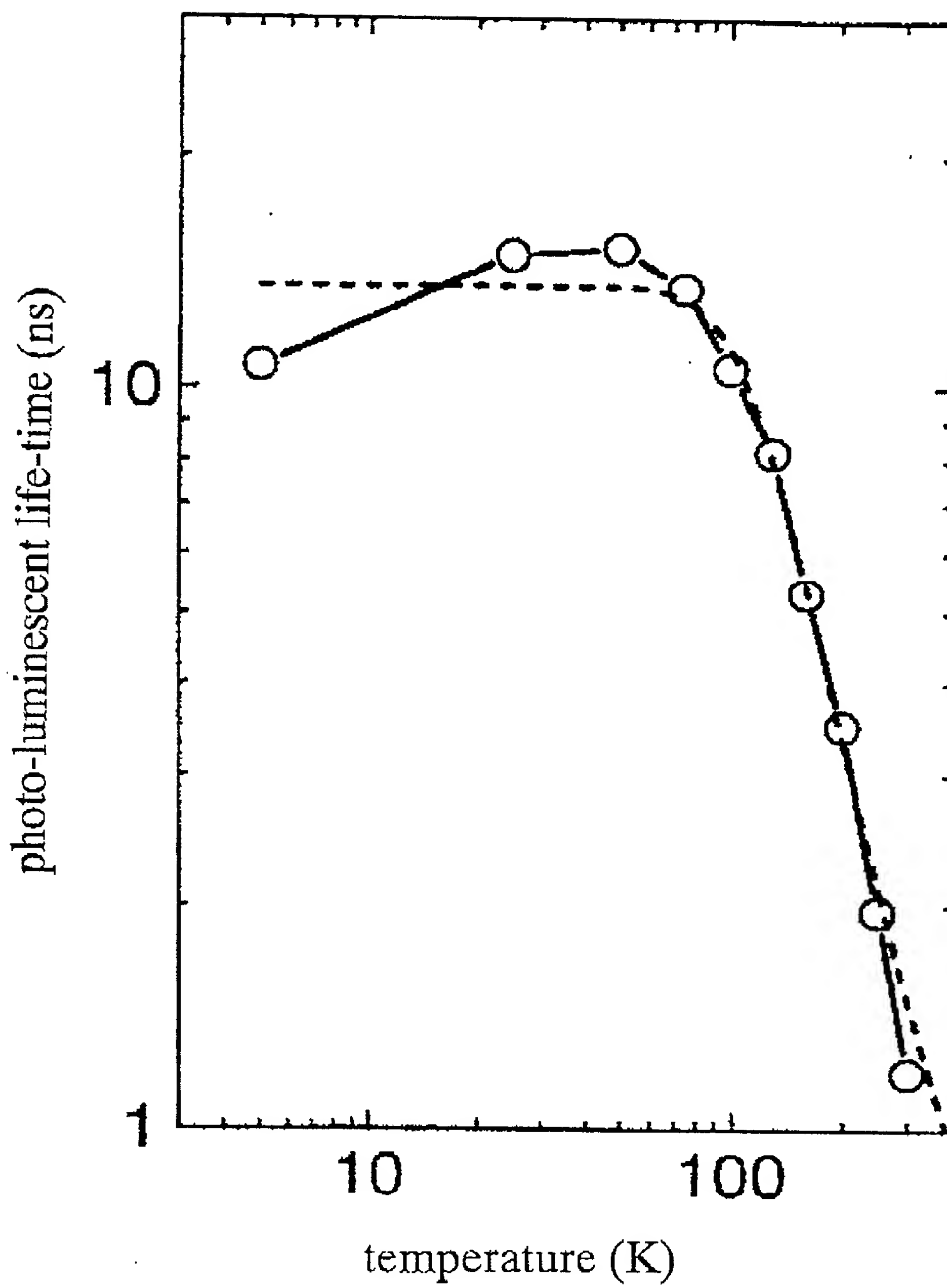


FIG. 12A

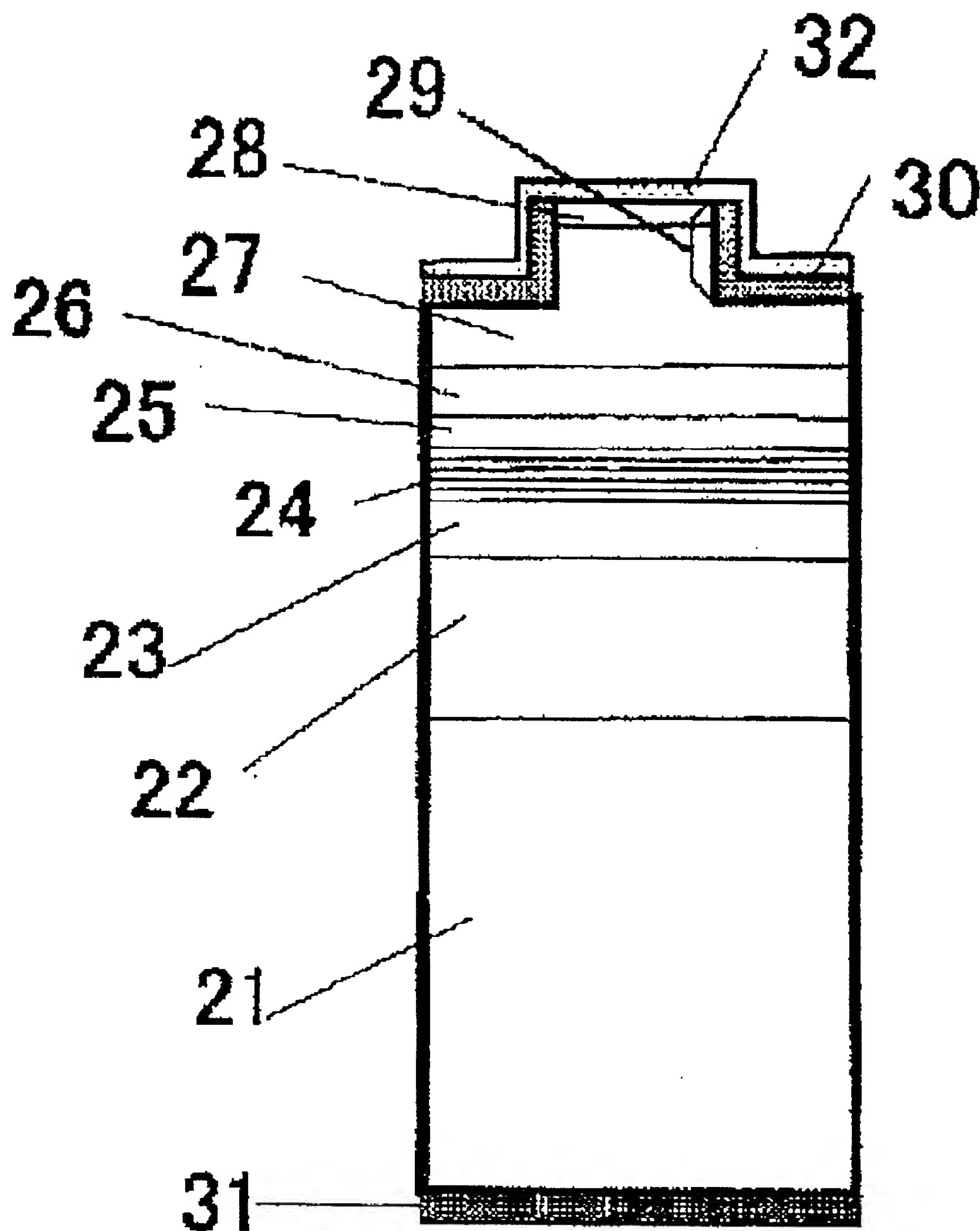


FIG. 12B

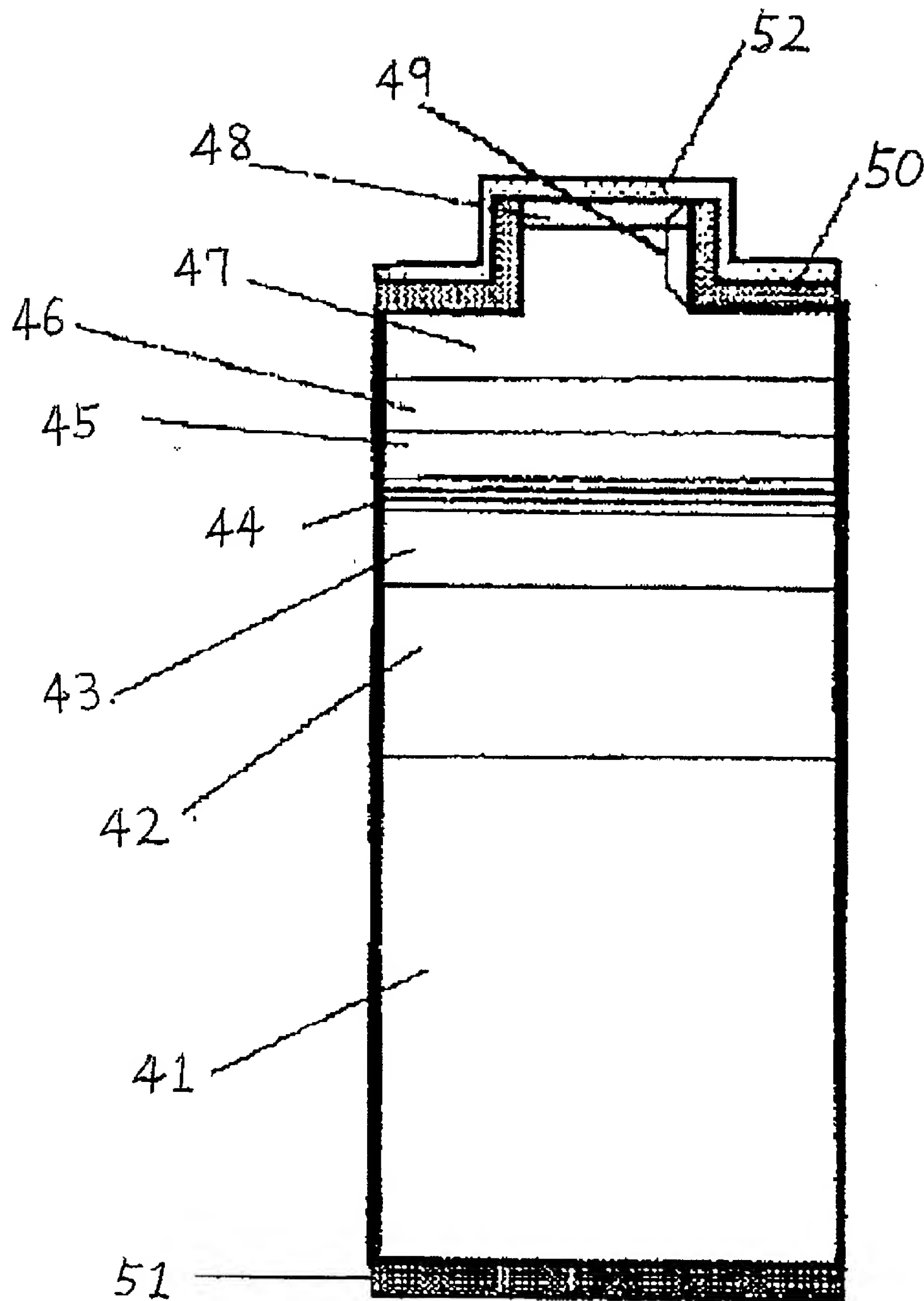


FIG. 13

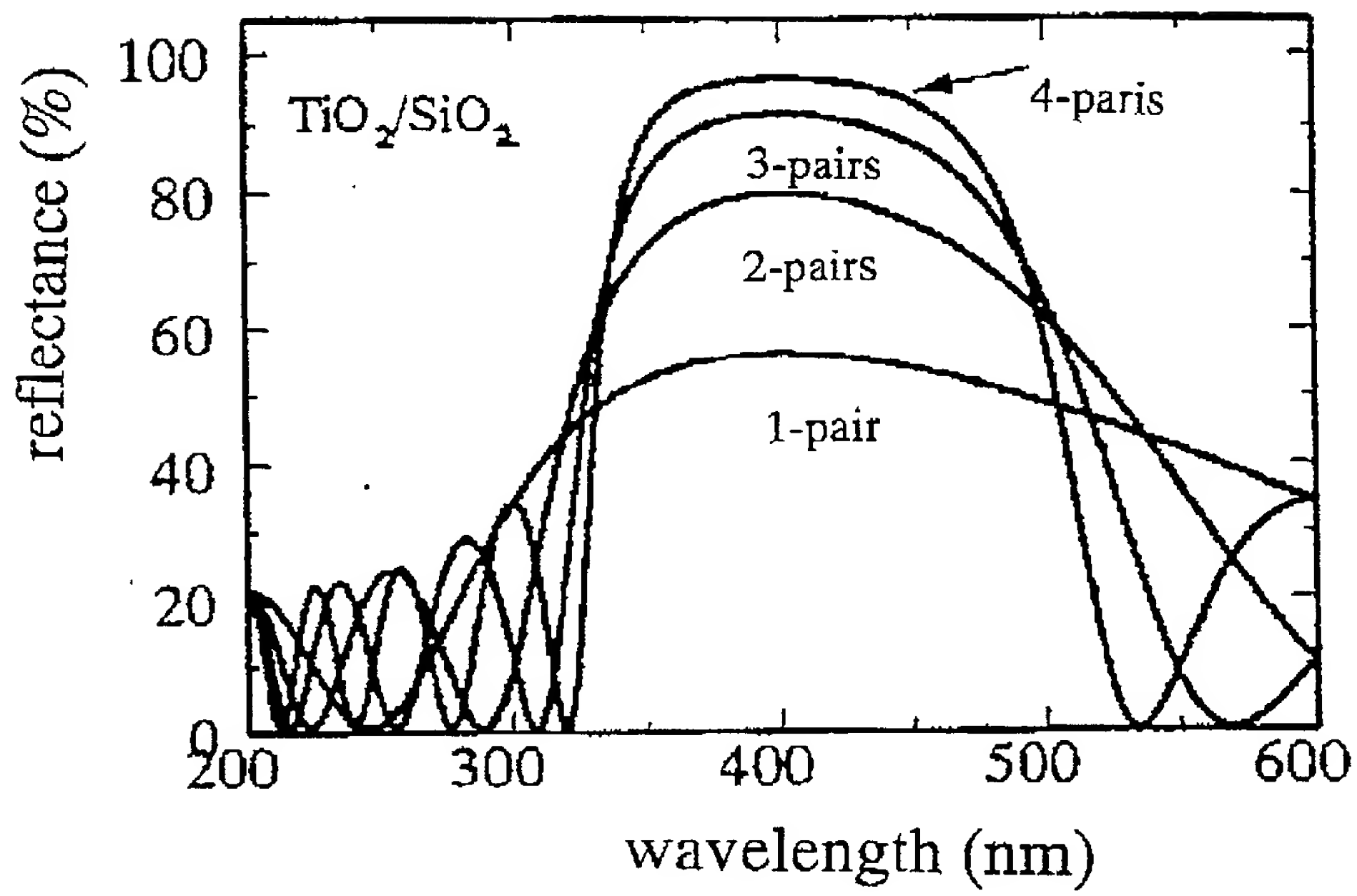


FIG. 14

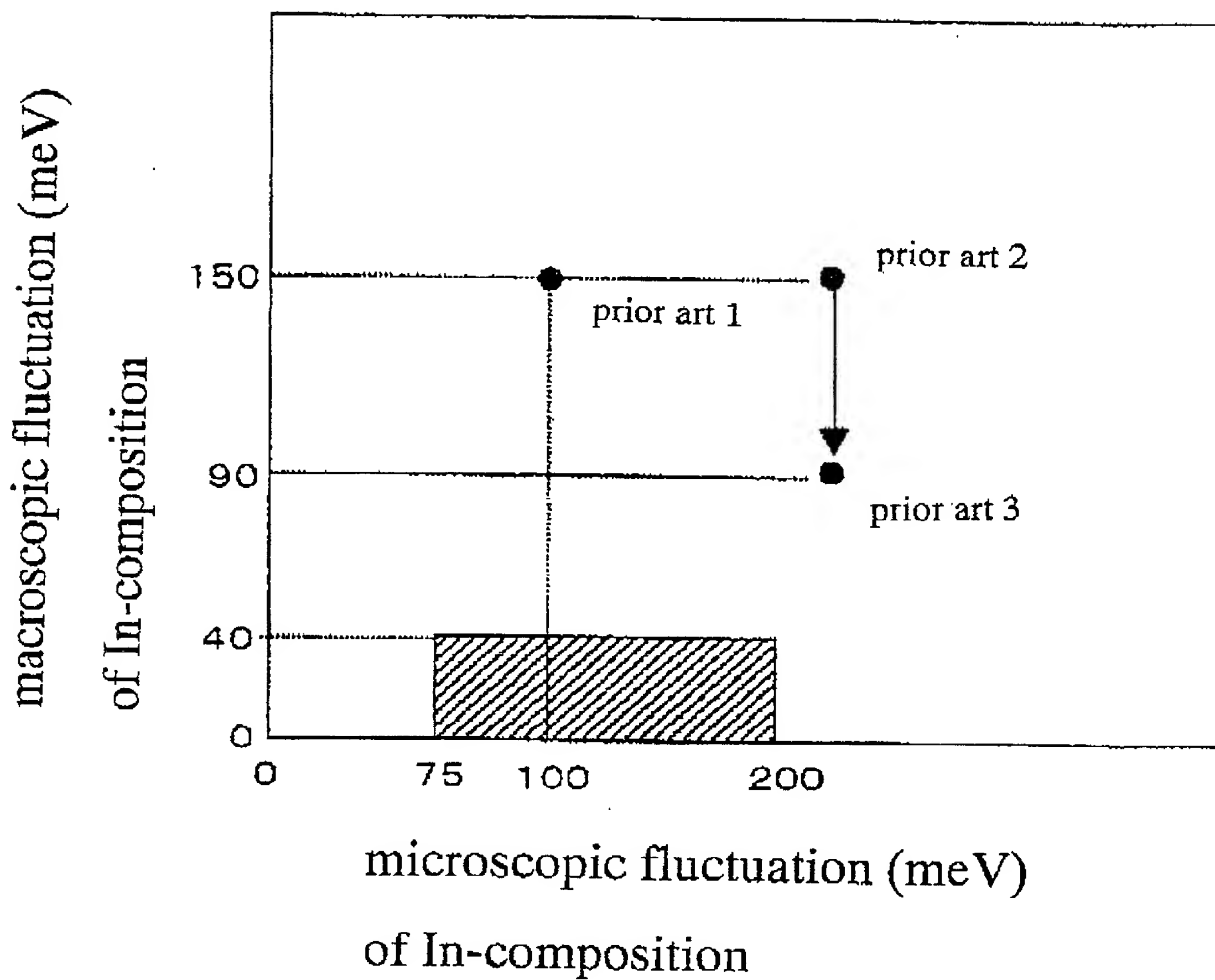


FIG. 15

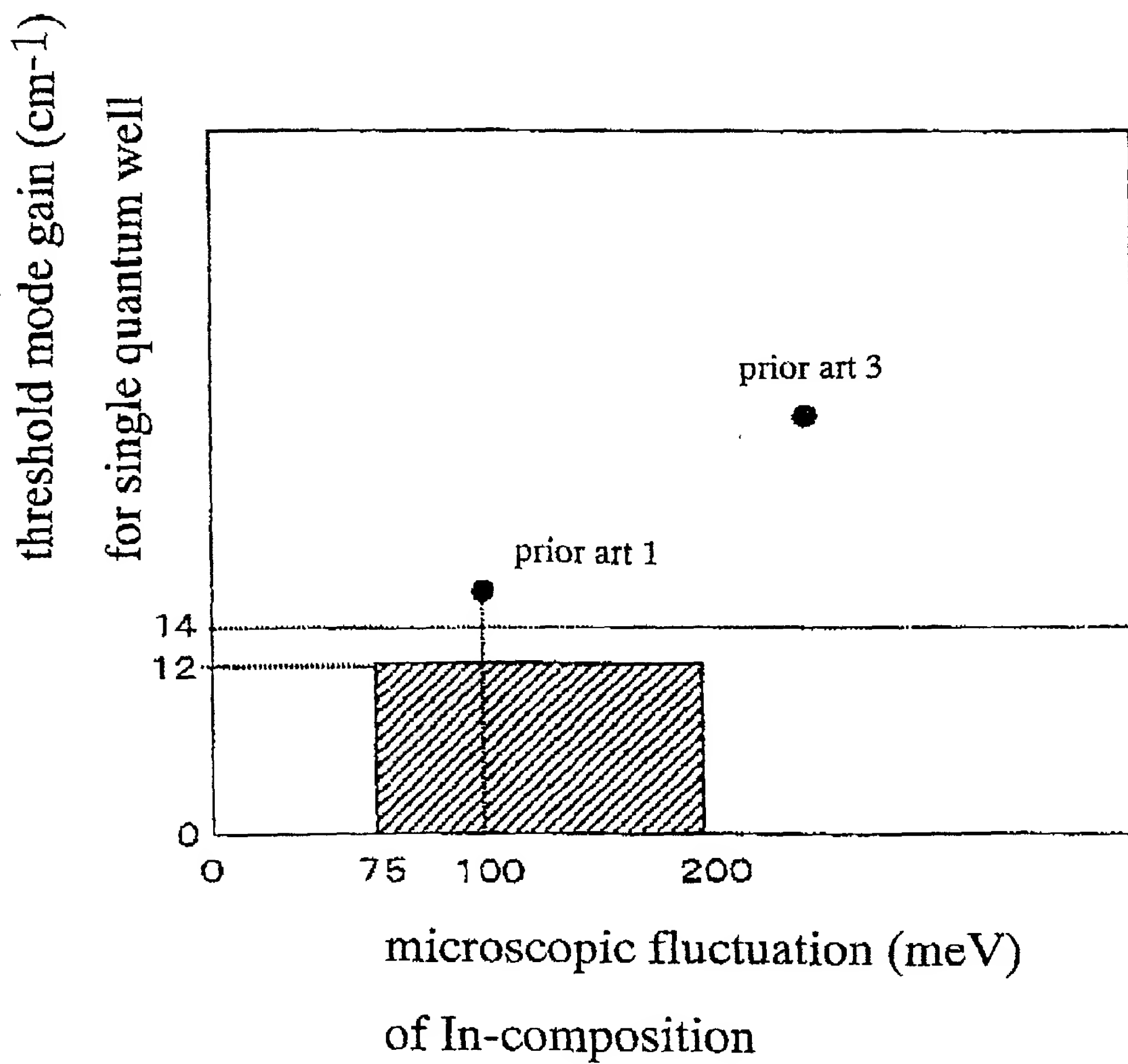


FIG. 16

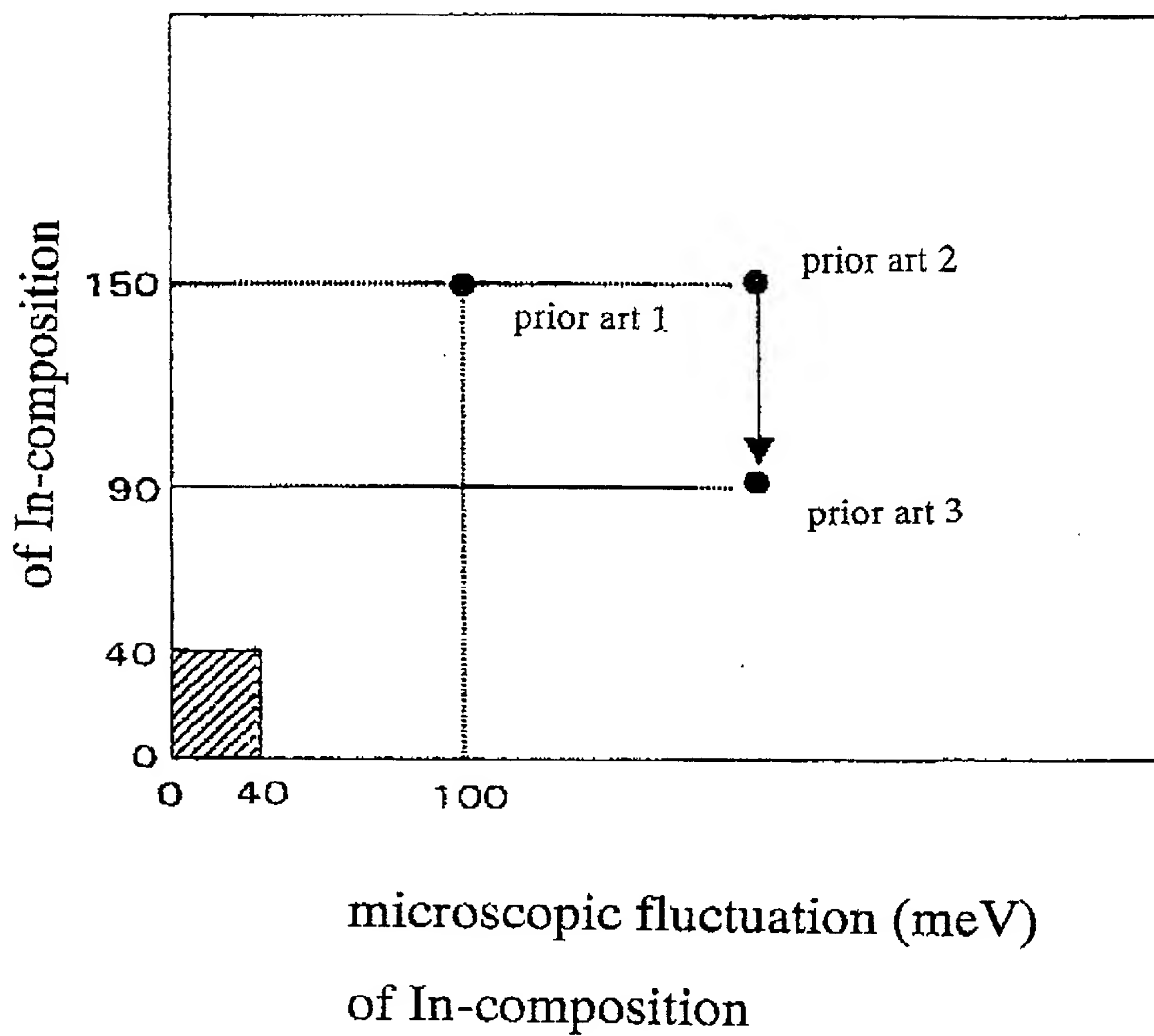


FIG. 17

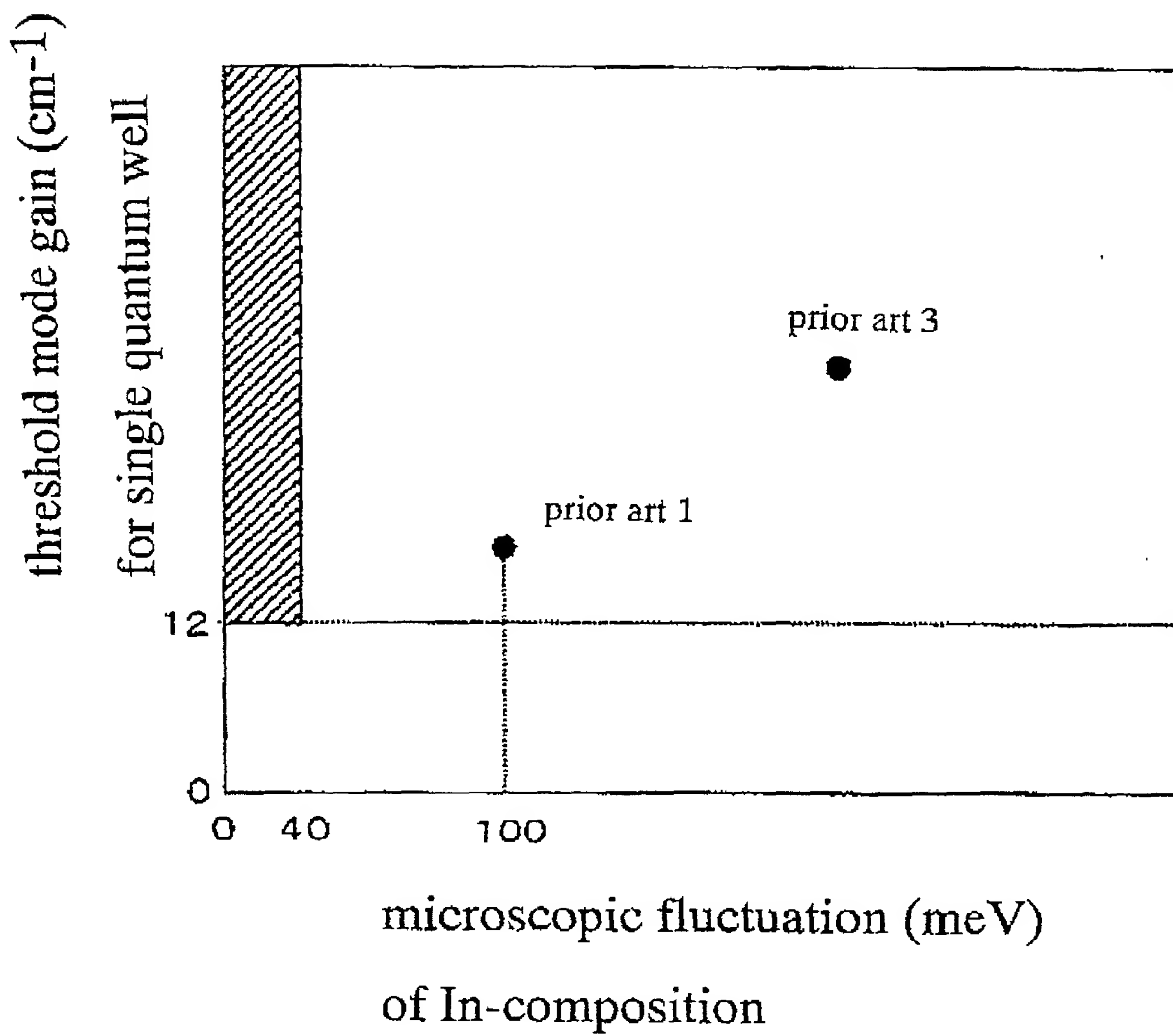
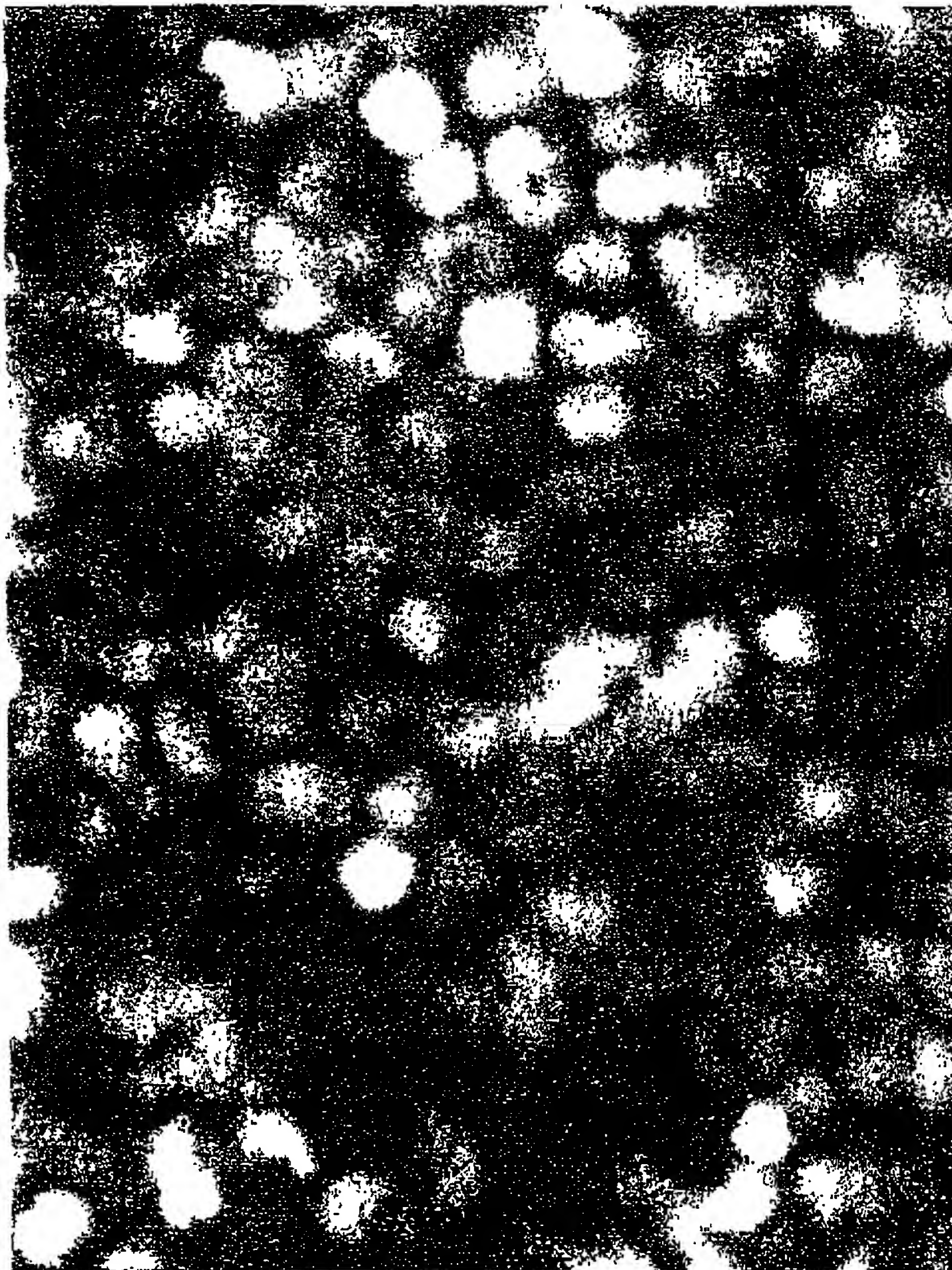


FIG. 18



990nm

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